

CLAIMS

1. A method of displaying a digital image for creating a multimedia content, the image being coded in multiple resolutions, characterized in that the  
5 method comprises steps consisting of:

- determining (E120) the number of resolutions present in the coded image;

- obtaining (E230) the data of the sub-images associated with each of the previously determined resolutions; and

- 10 - displaying (E300) all the sub-images.

2. A method according to Claim 1, characterized in that the display step (E300) consists of displaying, in addition to the image at each of said resolutions, information on the volume of the data of each of the sub-images.

3. A method according to Claim 2, characterized in that the  
15 information on the data volume of each of the sub-images comprises a magnification factor with respect to the data volume associated with the smallest resolution and/or the total volume of the binary data associated with each of said resolutions.

4. A method according to Claim 1, 2 or 3, characterized in that the  
20 display step (E300) consists of displaying simultaneously all the sub-images.

5. A method according to Claim 1, 2 or 3, characterized in that the display step (E300) consists of the default display of a sub-image with a predetermined resolution and viewing windows appear as a watermark corresponding to the other sub-images, selecting one of the watermark windows  
25 making it possible to display the corresponding sub-image.

6. A method according to Claim 1, 2 or 3, characterized in that the display step (E300) consists of the default display of a sub-image with a predetermined resolution and accessing the display of the other sub-images by activating action buttons.

30 7. A method according to any one of the preceding claims, characterized in that the image is coded to the JPEG2000 format.

8. A method according to the preceding claim, characterized in that the step (E230) of obtaining the data of the sub-images differs according to the order of progression adopted for the image during its coding, vis-à-vis information on resolution (R), components (C), spatial position (P) and quality layer (L).

9. A device for displaying a digital image for creating a multimedia content, the image being coded in multiple resolutions, characterized in that the device comprises:

- means for determining the number of resolutions present in the coded image,
- means for obtaining the data of the sub-images associated with each of the previously determined resolutions, and
- means for displaying all the sub-images.

10. A device according to Claim 9, characterized in that the display means are adapted to display, in addition to the image at each of said resolutions, information on the volume of the data of each of the sub-images.

11. A device according to the preceding claim, characterized in that the information on the volume of the data of each of the sub-images comprise a magnification factor with respect to the data volume associated with the smallest resolution and/or the total volume of the binary data associated with each of the said resolutions.

12. A device according to Claim 9, 10 or 11, characterized in that the display means are adapted to display simultaneously all the sub-images.

13. A device according to Claim 9, 10 or 11, characterized in that the display means are adapted to display, by default, a sub-image with a predetermined resolution and watermark windows corresponding to the other sub-images, the selection of one of the watermark windows making it possible to display the corresponding sub-image.

14. A device according to Claim 9, 10 or 11, characterized in that the display means are adapted to display by default a sub-image with a predetermined resolution and comprise action buttons whose activation displays the other sub-images.

15. A device according to any one of Claims 9 to 14, characterized in that the image is coded to the JPEG2000 format.

16. Device according to the preceding claim, characterized in that the means of obtaining data of the sub-images differ according to the progression order adopted for the image at the time of its coding vis-à-vis information on resolution (R), components (C), spatial position (P) and quality layer (L).

17. A method of creating a multimedia content, characterized in that the method comprises steps consisting of:

- 10       - selecting a digital image to be inserted in the content,
- selecting (E400) a resolution associated with one of the sub-images displayed by means of a display method according to any one of the preceding claims; and
- inserting (E900), in the multimedia content, information on the sub-image with the selected resolution.

18. A method according to the preceding claim, characterized in that said information on the sub-image with the selected resolution consist of a reference to the digital image in coded form and a parameter indicating the resolution selected.

19. A method according to Claim 17, characterized in that said information on the sub-image with the selected resolution consists of data representing said sub-image in the coded image, at all resolutions up to the selected resolution.

20. A device for creating a multimedia content, characterized in that the device comprises:

- 25       - means (811) for selecting a digital image to be inserted in the content;
- means (812) for selecting a resolution associated with one of the sub-images displayed by means of a display device according to any one of Claims 9 to 16; and
- 30       - means (814) for inserting in the multimedia content information on the sub-image with the selected resolution.

21. A device according to the preceding claim, characterized in that said information on the sub-image with the selected resolution consists of a reference to the digital image in coded form and a parameter indicating the selected resolution.

5           22. A device according to Claim 20, characterized in that said information on the sub-image with the selected resolution consists of data representing said sub-image in the coded image, at all resolutions up to the selected resolution.

10           23. A communication apparatus, characterized in that it comprises a display device according to any one of Claims 9 to 16.